



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D3912-3

Job Sheet 199548



Part No: D3912-3

Job Qty: 60 pcs

Part Name: Eyebolt Block



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 8/27/19

Job Tracking No:

Due Date: 9/6/19

Created By: Kimberley Guerin

Type: Stock

Description:

Note: DWG REV B IPP REV:A NEW ISSUE 09-11-25 JLM VERIFIED BY:DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	60 pcs	9/6/19	9/6/19	0.00	0.00	Purchasing - 1		RE OCT 1 1 2019
							Purchasing - 2		
							Purchasing - 3		
	2019-06-14 PO#B043733 PL x60								
110	Packaging 2-1 - Receive - B4B	60 pcs	9/6/19	9/6/19	0.00	0.00	Packaging 2 - 1 - B4B		RE OCT 1 1 2019
							Packaging 2 - 2 - B4B		
							Packaging 2 - 3 - B4B		
							Packaging 2 - 5 - B4B		
							Packaging 2 - 4 - B4B		
							Packaging 2 - 6 - B4B		
							Packaging 2 - 7 - B4B		
							Packaging 2 - 8 - B4B		
							Packaging 2 - 9 - B4B		
							Packaging 2 - 10 - B4B		
							Packaging 2 - 11 - B4B		
							Packaging 2 - 12 - B4B		
							Packaging 2 - 13 - B4B		
							Packaging 2 - 14 - B4B		
							Packaging 2 - 15 - B4B		
							Packaging 2 - 16 - B4B		
							Packaging 2 - 17 - B4B		
							Packaging 2 - 18 - B4B		
							Packaging 2 - 19 - B4B		
							Packaging 2 - 20 - B4B		
							Packaging 2 - 21 - B4B		
							Packaging 2 - 22 - B4B		
							Packaging 2 - 23 - B4B		
							Packaging 2 - 24 - B4B		
							Packaging 2 - 25 - B4B		
							Packaging 2 - 26 - B4B		
							Packaging 2 - 27 - B4B		
							Packaging 2 - 28 - B4B		



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Container No: S221929



Part: D3912-3

Job No: 199548

Serial No/Batch: S221929

Revision:

Inspector:

Exp Date:

Instructions: Various STC's

Date: 10/11/19

Plex 8/27/19 4:14 PM Dart.Guerin.Kimberley

					Packaging 2 - 29 - B4B	
					Packaging 2 - 30 - B4B	
					Packaging 2 - 31 - B4B	
					Packaging 2 - 32 - B4B	
					Packaging 2 - 33 - B4B	
					Packaging 2 - 34 - B4B	
					Packaging 2 - 35 - B4B	
					Packaging 2 - 36 - B4B	
120	QC 6	60 pcs	9/6/19	0.00 0.00	QC 6 - 9	
					QC 6 - 68	DAS
					QC 6 - 61	81
					QC 6 - 40	9-89
					QC 6 - 81	
190	Packaging 3-1 - Stock - B4B	60 pcs	9/6/19	0.00 0.00	Packaging 3 - 1 - B4B	
		58			Packaging 3 - 2 - B4B	
					Packaging 3 - 3 - B4B	✓
					Packaging 3 - 4 - B4B	
					Packaging 3 - 5 - B4B	
					Packaging 3 - 6 - B4B	
					Packaging 3 - 7 - B4B	
					Packaging 3 - 8 - B4B	
					Packaging 3 - 9 - B4B	
					Packaging 3 - 10 - B4B	
					Packaging 3 - 11 - B4B	
					Packaging 3 - 12 - B4B	
					Packaging 3 - 13 - B4B	
					Packaging 3 - 14 - B4B	
					Packaging 3 - 15 - B4B	
					Packaging 3 - 16 - B4B	
					Packaging 3 - 17 - B4B	
					Packaging 3 - 18 - B4B	
					Packaging 3 - 19 - B4B	
					Packaging 3 - 20 - B4B	
					Packaging 3 - 21 - B4B	
					Packaging 3 - 22 - B4B	
					Packaging 3 - 23 - B4B	
					Packaging 3 - 24 - B4B	
					Packaging 3 - 25 - B4B	
					Packaging 3 - 26 - B4B	
					Packaging 3 - 27 - B4B	
					Packaging 3 - 28 - B4B	
					Packaging 3 - 29 - B4B	
					Packaging 3 - 30 - B4B	
					Packaging 3 - 31 - B4B	
					Packaging 3 - 32 - B4B	
					Packaging 3 - 33 - B4B	
					Packaging 3 - 34 - B4B	
					Packaging 3 - 35 - B4B	
					Packaging 3 - 36 - B4B	
200	QC 21 - SA	60 pcs	9/6/19	0.00 0.00	QC 21 - SA - 21	DAS
					QC 21 - SA - 70	21
					QC 21 - SA - 53	9-89
Part Op 100 - ISSUE P/O: _____ MANUFACTURE D3912-3 AS PER DWG C OF C IS REQUIRED Descriptions: 110 - (Receive & Inspect for Damage & Mat'l Certs) 120 - QC6- All purchased or subcontracted products 190 - (Identify as per dwg & Stock Location: _____) 200 - (QC21- Final Inspection - Work Order Release)						

Job BOM				
Part / Item	Component Name	Quantity	Operation	Container
D3912-3P	Eyebolt Block	60 Ea (1 ea)	100-Purchasing	S-22192S
Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	D3912-3P	60	0	0
Part Specifications				
Specifications could not be found.				

Plex 8/27/19 4:14 PM Dart.Guerin.Kimberley

Pack List

Number: 144495

Date: 10-Oct-19

To

DART AEROSPACE
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
Canada

Ship To

DART AEROSPACE
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
Canada

Ph: 613-632-5200

Fax: 613-632-5246

Ph: 613-632-5200

Fax: 613-632-5246

Terms	Ship Via
Net 30 days	

Quantity	Description	Rev: B
58 each	Part: D3912-3P EYEBOLT BLOCK SO: 25759 Ordered: 60 **LOT #107421	Line: 5

PO: HB043733

Backordered: 2

CERTIFICATE OF COMPLIANCE: "I hereby certify that the material described above is in conformance with applicable physical and dimensional specifications; that it was manufactured in accordance with applicable process specifications, and has been inspected to verify conformance to those specifications."

APPROVED SIGNATORY (QUALITY ASSURANCE)

RECEIVED

OCT 10 2019

DART AEROSPACE LTD.



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB043733



Supplier: ETM001-VC
E.T.M. Industries Inc.
310 Hall Avenue, Box 610
Renfrew
ON
K7V 4E7 Canada
Phone: 613-432-6136
Fax: 613-432-8212

PO No: POHB043733
PO Date: 6/14/19
Due Date: 8/23/19
Purchase Order Revision:
Revision Date:
Ship-To Contact: Lussier, Patrick
Phone: 613-632-5200 Ext: 276
plussier@dartaero.com

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pynt Terms: Net 30
Freight Terms:
Special Comments:

Items

Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	199544	D4016-3P			Hinge Half, Lid REV B	Firmed	-	9/6/19	155 Ea	0 Ea	155 Ea	\$25.00/Ea	\$3,875.00
2	199545	D4016-3P			Hinge Half, Lid REV B	Firmed	-	11/22/19	155 Ea	0 Ea	155 Ea	\$25.00/Ea	\$3,875.00
3	199546	D4016-3P			Hinge Half, Lid REV B	Firmed	-	2/21/20	155 Ea	0 Ea	155 Ea	\$25.00/Ea	\$3,875.00
4	199547	D4016-3P			Hinge Half, Lid REV B	Firmed	-	5/22/20	165 Ea	0 Ea	165 Ea	\$25.00/Ea	\$4,125.00
5	199548	D3912-3P			Eyebolt Block : Various STC's REV B	Firmed	-	9/6/19	60 Ea	0 Ea	60 Ea	\$54.00/Ea	\$3,240.00
6	199549	D3912-3P			Eyebolt Block : Various STC's REV B	Firmed	-	11/22/19	60 Ea	0 Ea	60 Ea	\$54.00/Ea	\$3,240.00
7	199550	D3912-3P			Eyebolt Block : Various STC's REV B	Firmed	-	2/21/20	60 Ea	0 Ea	60 Ea	\$54.00/Ea	\$3,240.00
8	199551	D3912-3P			Eyebolt Block : Various STC's REV B	Firmed	-	5/22/20	60 Ea	0 Ea	60 Ea	\$54.00/Ea	\$3,240.00

OCT 11 2019



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB043733



Items

Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
9	199563	D4151-7P			Fwd Eyebolt Receiver (Upper) REV C	Firmed	-	9/6/19	48 Ea	0 Ea	48 Ea	\$70.00/Ea	\$3,360.00
10	199564	D4151-7P			Fwd Eyebolt Receiver (Upper) REV C	Firmed	-	2/21/20	50 Ea	0 Ea	50 Ea	\$70.00/Ea	\$3,500.00

Grand Total: \$35,570.00

Order Notes

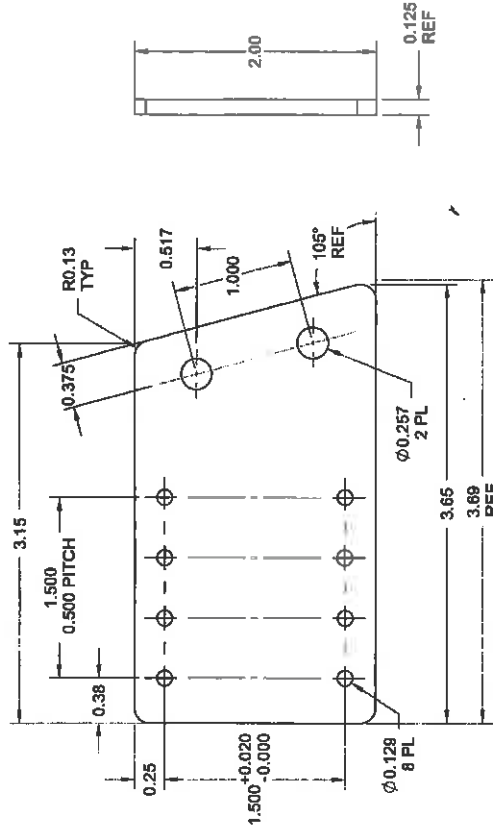
Procurement Quality Clauses
 A005 RIGHT OF ENTRY
 A008 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION SENT TO DART AEROSPACE)
 A012 CHEMICAL AND PHYSICAL TEST REPORTS
 A016 PERSONNEL QUALIFICATION
 A017 RAW MATERIAL IDENTIFICATION (AS APPLICABLE)
 A026 CERTIFICATION OF MATERIAL CONFORMANCE
 A041 QUALITY MANAGEMENT SYSTEM
 A042 DART NOTIFICATION BY SUPPLIER
 A043 RETENTION OF QUALITY DOCUMENT
 A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM
 A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

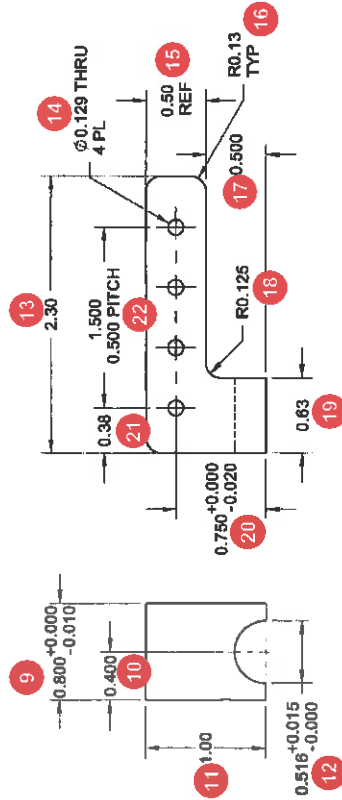
Plex 10/2/19 1:22 PM dart.lussier.patrick

RELEASED
R 2010-07-16
JMD

D3912-5 EYEBOLT PLATE



D3912-3 EYEBOLT BLOCK



- NOTES:**
- 1) MATERIAL - 303/304/316 STAINLESS STEEL BAR, PER ASTM A276
REF DART SPEC M303B OR M304B
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: ID AT ASSEMBLY
 - 7) WEIGHT: -3: 0.30 lbs
-5: 0.24 lbs

DESIGN	REV. B
DRAWN	DRAWING NO.
CHECKED	D3912
MFG. APPR.	TITLE
APPROVED	EYEBOLT RECEIVER ASSY
DATE	10.06.28
	SCALE
	NTS
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1. Part Number D3912-3P	2. Part Name EYEBOLT BLOCK	3. Serial Number N/A	4. FAI Number N/A
5. Part Revision Level REV.B	6. Drawing Number D3912	7. Drawing Revision Level REV.B	8. Additional Changes N/A
9. Manufacturing Process Reference 107421	10. Organization Name ETM Industries Inc.	11. Supplier Code N/A	12. P.O. Number HB043733 LN.5
13. Detail FAI ☒	14. Full FAI ☒	Baseline Part Number including Revision Level	
Assembly FAI ☐	Partial FAI ☐		
Reason for Partial FAI: Not Applicable		N/A	
a) If above part number is a detail part only, go to Field 19 b) If above part number is an assembly, go to the "Index" section below.			
INDEX of part numbers or sub assembly numbers required to make the assembly noted above.			
15. Part Number	16. Part Name	17. Part Serial Number	18. FAI Report Number
N/A	N/A	N/A	N/A

1) Signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.	
2) Also indicate if the FAI is complete per Section 5.4: ☒ FAI Complete ☐ FAI Not Complete	
19. Signature BARRY DUPUIS	20. Date 10/10/19
21. Reviewed by	22. Date
23. Customer Approval	24. Date

ETM Industries Inc

AS9102 Revision B First Article Inspection

Page 2 of 4

Form 2: Product Accountability – Raw Material, Specifications and Special Process(es),
Functional Testing

1. Part Number D3912-3P	2. Part Name EYEBOLT BLOCK	3. Serial Number N/A	4. FAI Report Number N/A		
5. Material or Process – Name	6. Specification Number	7. Code	8. Special Process Supplier Code	9. Customer Approval Verification (Yes/No/N/A)	10. Certificate of Conformance Number
STAINLESS STEEL	303/304/316 STAINLESS STEEL BAR, PER ASTM A276.	N/A	N/A	N/A	ACCIAIERIE VALBRUNA LOT # 276037/278237
11. Functional Test Procedure Number	12. Acceptance report number, if applicable				
Not Applicable	Not Applicable				
13. Comments					
14. Prepared By BARRY DUPUIS					
15. Date 10/10/19					

1. Part Number		2. Part Name		3. Serial Number		4. FAI Report	
D3912-3P		EYEBOLT BLOCK		N/A		N/A	
Characteristic Accountability				Inspection / Test Results			
5. Char. No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designated Tooling	11. Non Conformance Number	14. Reference Documents
1	SHT.1	N/A	NOTE 1:MATERIAL -3: 303/304/316 STAINLESS STEEL BAR,PER ASTM A276.REF: DART SPEC. M303B OR M304B	ACCEPT	ACCIAIERIE VALBRUNA LOT # 276037/278237	N/A	N/A
2	SHT.1	N/A	NOTE 1:MATERIAL -5: 303/304/316 STAINLESS STEEL SHEET ANNEALED 2B,0.125 THK PER MIL-S-5059 OR AMS 5513/5524 OR ASTM A240 OR ASME 5A240 REF DART SPEC. M303S11GA OR M304S11GA	N/A	N/A	N/A	N/A
3	SHT.1	N/A	NOTE 2: FINISH: NONE.	ACCEPT	VERIFY	N/A	N/A
4	SHT.1	N/A	NOTE 3: TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED	ACCEPT	VERIFY	N/A	N/A
5	SHT.1	N/A	NOTE 4: UNITS: INCHES UNLESS OTHERWISE NOTED	ACCEPT	VERIFY	N/A	N/A
6	SHT.1	N/A	NOTE 5: BREAK SHARP EDGES: 0.005 TO 0.010 MAX.	ACCEPT	VERIFY	N/A	N/A
7	SHT.1	N/A	NOTE 6: IDENTIFICATION:ID AT ASSEMBLY	ACCEPT	VERIFY	N/A	N/A
8	SHT.1	N/A	NOTE 7:WEIGHT -3: 0.30LBS. WEIGHT -5:0.24LBS.	-3:0.3 LBS.	DIGITAL SCALE	N/A	N/A
9	SHT.1	N/A	0.800 +0.0000/-0.010	0.7965	MICROMETER	N/A	N/A
10	SHT.1	N/A	0.400+/-0.010	0.3985	HEIGHT GAUGE	N/A	N/A

The signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

12. Prepared By

BARRY DUPUIS

13. Date

10/10/19

AS9102 Revision B First Article Inspection
Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

1. Part Number D3912-3P			2. Part Name EYEBOLT BLOCK		3. Serial Number N/A		4. FAI Report N/A	
Characteristic Accountability				Inspection / Test Results				
5. Char. No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designated Tooling	11. Non Conformance Number	14. Reference Documents	
11	SHT.1	N/A	1.00+/-0.030	1.001	MICROMETER	N/A	N/A	
12	SHT.1	N/A	0.516+0.015/-0.0000	0.525	CALIPERS	N/A	N/A	
13	SHT.1	N/A	2.30+/-0.030	2.3005	HEIGHT GAUGE	N/A	N/A	
14	SHT.1	N/A	0.129 DIA. THRU X 4PLCS.	RANGE: 0.1285/0.1295	GAUGE PIN	N/A	N/A	
15	SHT.1	N/A	0.50+/-0.030(REF)	0.501	MICROMETER	N/A	N/A	
16	SHT.1	N/A	R0.13+/-0.030	0.125	RADIUS GAUGE	N/A	N/A	
17	SHT.1	N/A	0.500+/-0.010	0.501	HEIGHT GAUGE	N/A	N/A	
18	SHT.1	N/A	R0.125+/-0.010	0.125	RADIUS GAUGE	N/A	N/A	
19	SHT.1	N/A	0.63+/-0.030	0.632	MICROMETER	N/A	N/A	
20	SHT.1	N/A	0.750+0.000/-0.020	0.748	HEIGHT GAUGE	N/A	N/A	
21	SHT.1	N/A	0.38+/-0.030	0.3785	HEIGHT GAUGE	N/A	N/A	
22	SHT.1	N/A	1.500 0.500 PITCH	1.499 .499 PITCH	HEIGHT GAUGE	N/A	N/A	

The signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

12. Prepared By

BARRY DUPUIS

13. Date

10/10/19



Castle Metals®

A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 1 of 1

Shipment No: 3940599

Ship From:
A. M. CASTLE & CO.
2150 ARGENTIA ROAD
MISSISSAUGA, ON L5N
2K7
CAN

Sold To:
E.T.M. INDUSTRIES INC
P.O. BOX 610
266 HALL AVENUE
RENFREW, ON K7V 4E7
CA

Ship To:
E.T.M. INDUSTRIES INC
266 HALL AVENUE
RENFREW, ON
K7V 2S5 CAN

Deliver To:
E.T.M. INDUSTRIES INC
266 HALL AVENUE
RENFREW, ON
K7V 2S5
CA

Date Shipped
03-JUL-19

F.O.B.
ORIGIN

Freight Terms
Prepaid

Carrier
LOCAL_FLEET

BOL No
3940599-6

Shipment Details

Final Destination Branch - TOR

Order No
1112400154

Line No
1

Item No
14507.MO

Description

1.2500.SQ.304/304L.STAINLESS.HR.ANN.PICKLE.132.0000-156.0000
CUT TO 2.5 IN (+ .1250/- .0000 IN) - BAND SAW CUTTING
SPECIFICATIONS: SEE SPECIAL INSTRUCTIONS
LOGBOOK-SALES/TESTS,PLEASE FORWARD P/S & CERTS TO
CUSTOMER VIA EMAIL jlowe@etmindustries.on.ca
Ordered Qty 244.00 PCS
Invoice Qty 244.00 PCS

Purchase Order No
115019

Part Number

Ordered Qty
244.00 PCS

Invoice Qty
244.00 PCS

Delivery No.
122744115

Mil/Source
VALBRUNA
CORPORATION

Heat Number
276037

Mech Id
24

PCS

Width (IN)
107424-61ea

Length (IN)
107423-61

Shipped qty(LBS)
26.5494

122744115

VALBRUNA
CORPORATION

220

107422-61

243.3697

RECEIVED
JUL 9 2019

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material put to the correct size, or material cut by the customer cannot be returned. Reviewed by Authorized Castle Metals Representative:

Date Printed: 03-JUL-2019 04:49:57 PM

JUL 03 2019

Date:

Name:

[Signature]



Castle Metals

HEAT NUMBER: 276037

MECHANICAL ID:

ITEM CODE: 14507

PO/LINE NUMBER: 478566

RECEIPT NUMBER:

SUPPLIER: VALBRUNA

SPECIFICATION:

LCS: NO

COMMENT:

APPROVED: AMB

PO#
115019
107424
107423
107422
107421

RECEIVED
JUL 9 2019



Acciaierie Valbruna S.p.A.

39100 VICENZA (Italia) - Viale della scienza, 25 s.l.
Telefono 0444.988211 - Fax 0444.988338
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4/37
Telefono 0471.924111 - Fax 0471.924497

CERTIFICATO DI COLLAUDO - ABNAHMEPRUEFZEUGNIS - INSPECTION CERTIFICATE - CERTIFICAT DE RECEPTION

In conformità a: EN 10204 (2004), 3.1 / ISO 10474 (2013), 3.1

Certificato nr. MEST277136 / 2018 /
Folium/Tafel

Clienti / Besteller/Purchaser/Cliant
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
46801 - FORT WAYNE, IN 46801 - US

Stato di fornitura: Hot rolled Descaled Annealed Hot rolled
Lieferzustand
Delivery state
Etat de livraison

Produttore:
Hersteller/Hersteller/Produkteur

ACCIAIERIE VALBRUNA S.P.A.

Ordine nr: 59690 478566 CASTLE
Bestell-
Typ order
Commande

Tipo di Elaborazione: E+AOD
Erstellungsmethode
Manufacturing process
Mode d'élaboration

Marchi di Fabbrica:
Zeichen des Lieferanten
Trade marks
Signes de l'usine productrice



Conferma ordine nr: E118007005
Vertraue Order/Nr. N.

Qualità: T-304/304L #14507
Werkstoff/Chemikalien

Funzione del Collaudatore:
Stempel des Werkstoffverständigen
Inspector's stamp/Personne de l'essayage

MR

Avviso di Spedizione: D-VI18019507
Lieferanweisung/Shipping instr.

Marca: AISI
Markenbezeichnung
Brand / Marque

Pinzonatura: 304/304L
Markierung
Stamping
Marquage

SPECIFICHE:

Anforderungen / Requirements / Exigences

Note:

Anmerkungen / Notes / Notes

3304-23 49 304 A
AISI 304
AMS 5839 H S30400 A
AMS-QQ-S-763 D 304 A
ASME SA182 2017 S30400 A (0)
ASME SA479 2017 S30400 A (1)
ASTM A182 2016 S30400 A (2)
ASTM A262 2015 PRACTICE E
ASTM A276 2017 S30400 A
ASTM A479 2016 S30400 A

(0) Section II Part A 2017 EDITION For products machined directly from bar refer to ASME SA479.
(1) Section II Part A 2017 EDITION
(2) For products machined directly from bar refer also to ASTM A479.

107424
107423
107422
107421

Tolleranza: ASTM A484-18 TABLE 3

Pos. nr. Pos. nr. No. de position	Oggetto Object Produit description Désign. du produit	Dimensioni - in Abmessungen Dimensions Dimensions	Lunghezza - in Länge Longueur	Colata Guss Coulée	Pezzi Stück Pièces	Peso - LB Gewicht Poids	Lotto nr. Loseil. Lot n°
0010	Square	1,2500 x 1,2500	144/ 153	276037		2.875	802407870

TEST ALLO STATO DI FORNITURA

Test on delivery condition Prüfung auf Lieferzustand produkt test a l'état de fourniture Prueba sobre el material así como entregado

TEST	Proveita/ Probes Spannung/Dehnung Longitudinale Spanne Bruch Dehn. Bruch Werkstoff. Bruch Long. direction Long. direction	*F	Prova Doppio Lavoro Proportione 11	Snervamento Streckgrenze Yield Stress Limite élastico Rp 0.2%	Snervamento Streckgrenze Yield Stress Limite élastico	Resistenza Zugfestigkeit Tensile strength Resistencia a tracción Rm	Allungamento Bruchdehnung Elongation Allongement E 4d	Strizione Bruchdehnung Elongation at break Strain	Resistenza Kerbschlagenergie Impact Value Resistencia	Durezza Härte Vickers Dureté HB
Valori richiesti Anforderungen/Required values Valeurs demandées		min max		30	-	75 115	- 40	- 50	-	140
A	12,5	68	L	45		89	54	68		223

TEST ALLO STATO DI FORNITURA

Test on delivery condition / Prüfung auf Lieferzustand produkt / Test a l'état de fourniture / Prueba sobre el material así como entregado

TEST	min	max
A Grain size for ASTM E112		5

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Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata Guss Coulée	Met. Metall	Min. min	Max. max	0.005	0.010	0.015	0.020	0.025	0.030	0.035	0.040	0.045	0.050	0.055	0.060	0.065	0.070	0.075	0.080	0.085	0.090	0.095	0.100
276037	C %	0.015	0.38	1.70	18.23	0.59	0.45	8.04	0.120	0.030	0.027	0.100											

Vicenza, 16/07/18

VCD005 - MEST277136

(Mod. NCEZ)

Il collaudatore di stabilimento / der Werkstoffverständige / Works Inspector / L'agent d'usine

M. RIZZOTTO

Pagina - 1 di 2



Acciaierie Valbruna S.p.A.

38100 VICENZA (Italia) - Viale della scienza, 25 a.l.
Telefono 0444.958211 - Fax 0444.958235
Stab.: 38100 BOLZANO (Italia) - Via A. Volta, 4/37
Telefono 0471.924111 - Fax 0471.924487

CERTIFICATO DI COLLAUDO - ABNAHMEPRUEFZEUGNIS - INSPECTION CERTIFICATE - CERTIFICAT DE RECEPTION

In conformità a: EN 10204 (2004), 3.1 / ISO 10474 (2013), 3.1

Certificato nr. MEST277136 / 2018 /
Prüfung/Prüfzeugnis

Cliente / Besteller/Purchaser/Client
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
46801 - FORT WAYNE, IN 46801 - US

Stato di fornitura: Hot rolled Descaled Annealed Hot rolled
Lieferzustand: Calberny state: État de livraison

Produttore: / Hersteller/Hersteller
Hersteller/Hersteller

ACCIAIERIE VALBRUNA S.P.A.

Ordine nr.: 59690 478566 CASTLE
Bestell- / Your order / Commande

Tipo di Elaborazione: E+AOD
Erstellungsort: Making process: Mode d'élaboration

Marchi di Fabbrica: Zeichen des Herstellers: Trade marks: Signes de l'usine productrice



Conferma ordine nr.: EI18007005
Werk-/Our Order/Confirmation

Qualità: T-304/304L #14507
Werkstoff/Qualitätsklasse

Punzione del Collaudatore: Stempel des Werkstoffverständigen / Inspector's stamp/Ponction de l'essayeur

MR

Avviso di Spedizione: D-VI18019507
Lieferanweisung/Packing instr.

Marca: AISL
Markenbezeichnung: Brand / Marque

Punzione nr.: 304/304L
Kannzeichnung: Marking: Marquage

Corrosion test in 18% sulfuric acid and copper sulfate solutions							
Test standard: ASTM A262-Practice E							
Test	Heat treatment before test	Length of Period (h)	Test temp (°C)	Bend Angle (°)	Ø spindle (mm)	Result of visual inspection at 20 x magnification after bend test	Result
Intergranular corrosion	Sensitization	15	boil	180	5	Absence of cracks	SATISFACTORY

Macroetch test: ok.
Reduction ratio = 32,1 : 1
Annealing temperature: 1940°F for 1 h/water.
Material is DFARS Compliant

115019

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind erfüllt
The material has been furnished in accordance with the requirements
Le matériel a été livré conforme aux exigences

Controllo antimescolanza: OK
Verunreinigungsprüfung: spektroskopisch durchgeführt
Automating testing performed: OK
Controlle antimescolanza fatto: r.a.s.

Controllo visivo e dimensionale: soddisfa le esigenze
Besichtigung und Ausmessung: ohne Beanstandung
Visual inspection and dimensional checks: satisfactory
Controlle visuel et dimensionnel: satisfaisant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination

We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER ACCORDING TO ISO 9001 : 2015, IATF 16949 : 2016, AS 9100D

The Quality Management System is Certified acc. Pressure Equipment Directive 97/23/EC Annex 1, 4.3 and 2014/68/EU by TÜV and LLOYD'S
Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.
Maximal and/or Valplus grades/products are manufactured with ladle techniques to control composition, distribution, size and shape of non-metallic inclusions for improved machinability.
The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products.

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Vicenza, 16/07/18

VC008 - MEST277136

(Mod. MCE2)

Il collaudatore di stabilimento / der Werkstoffverständige / Works inspector / L'agent d'usine

M. RIZZOTTO

Pagina - 2 di 2



Acciaierie Valbruna S.p.A.

39100 VICENZA (Italia) - Viale della Industria, 25 z.l.
 Telefono 0444.998211 - Fax 0444.993859
 Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4/37
 Telefono 0471.924111 - Fax 0471.924497

CERTIFICATO DI COLLAUDO - ABNAHMEPRUEFZEUGNIS - INSPECTION CERTIFICATE - CERTIFICAT DE RECEPTION

In conformità a: EN 10204 (2004), 3.1 / ISO 10474 (2013), 3.1

Certificato nr. MEST389300 / 2019 /
 Auftrag/Trafficat

Cliente / Besteller/Purchaser/Cient
VALBRUNA STAINLESS INC.
 2400 TAYLOR STREET WEST
 48801 - FORT WAYNE, IN 48801 - US

Stato di fornitura: Hot rolled Descaled Annealed Hot
 Lieferzustand: rolled
 État de livraison

Produzione:
 Herstellungs-/Ausgangsort

ACCIAIERIE VALBRUNA S.P.A.

Ordine nr: 61994 501154 CASTLE
 Bestell-
 Year order
 Covenante

Tipo di Elaborazione: E+AOD
 Bearbeitungsart
 Making process
 Mode d'élaboration

Marchi di Fabbrica:
 Zeichen des Herstellers
 Trade marks
 Signes de l'usine-producteur



Conferma ordine nr: E119001100
 Vertrags/Bestellnr.

Qualità: 304/304L #14507
 Werkstoff/Grade/Reference

Funzione del Collaudatore:
 Beauftragter des Werkstattsverständigen
 Inspector's charge/Fonction du l'essayeur

MR

Avviso di Spedizione: D-VI19009733
 Lieferungsanweisung

Marcas: AISI
 Markenbezeichnung
 Brand / Nomme

Funzionatura: 304/304L
 Beanspruchung
 Loading
 Usage

SPECIFICHE:

Note:

Anforderungen / Requirements / Exigences

Anforderungen / Notes / Notes

3304-23 50 304 A
 AISI 304
 AMS 5639 J S30400 A
 AMS-QQ-S-763 D 304 A
 ASME SA182 2017 S30400 A (0)
 ASME SA479 2017 S30400 A (1)
 ASTM A182 2018 S30400 A (2)
 ASTM A262 2015 PRACTICE E
 ASTM A276 2017 S30400 A
 ASTM A479 2018 S30400 A

(0)Section II Part A 2017 EDITION For products machined directly from bar refer to ASME SA479.
 (1)Section II Part A 2017 EDITION
 (2)For products machined directly from bar refer also to ASTM A479.

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		Tolleranze: ASTM A484-18A TABLE 3							
Pos. nr. Pos. nr. No. of parts	Oggetto Quantität Product description Design. No. product	Dimensioni - in Abmessungen Dimensions		Lunghezza - in Länge Length		Colata Schmelze Heat Grade		Pezzi Stücke Pieces	
		1.2500 x 1.2500		144/ 154		275237		2.859	
0010	Square							826904610	

TEST ALLO STATO DI FORNITURA											
Test on delivery condition / Prüfung auf Lieferzustand / Test à l'état de livraison / Prueba sobre el material así como entregado											
TEST	Proveite / Provenienze Herstellungsort Lieferanten Bau- und Fabrik- marken, Zeichen Lsg. des Herst. Lsg. des Herst.	°F	Prove Single Temperatur Temperatur	Snervamento Snervamento Yield Stress Yield Stress Rp 0.2%	Snervamento Snervamento Yield Stress Yield Stress Yield Stress	Resistenza Zugfestigkeit Tensile Strength Tensile Strength Rm	Allungamento Bruchdehnung Elongation Elongation Elongation	Sezione Querschnitt Reduction of area Reduction	Resistenza Härte Impact Value Resistenz	Durezza Härte Rockwell HB	
Valori richiesti Anforderungen/Required values Toleranzen		min max		30	-	75 115	- 40	- 50	-	140 223	
A	12,5	68	L	46		92	53	65		178	

TEST ALLO STATO DI FORNITURA			
Test on delivery condition / Prüfung auf Lieferzustand / Test à l'état de livraison / Prueba sobre el material así como entregado			
TEST		min	max
A	Grain size for ASTM E112		8

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Analisi chimica											
Chemische Zusammensetzung / Chemical composition / Analyse chimique											
Code Schmelze/Code	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %
278237	0,016	0,36	1,78	18,53	0,63	0,39	8,21	0,128	0,032	0,024	0,094

Vicenza, 01/04/19
 VCC006 - MEST389300

Il collaudatore di stabilimento / der Werkstattsverständige / Works Inspector / L'agent d'usine

M. RIZZOTTI

Pagina - 1 di 2



Acciaierie Valbruna S.p.A.

36100 VICENZA (Italia) - Viale della Industria, 26 s.l.
Telefono 0444.988211 - Fax 0444.983636
Stab: 39100 BOLZANO (Italia) - Via A. Volta, 4/37
Telefono 0471.924111 - Fax 0471.924487

CERTIFICATO DI COLLAUDO - ABNAHMEPRUEFZEUGNIS - INSPECTION CERTIFICATE - CERTIFICAT DE RECEPTION

In conformità a: EN 10204 (2004), 3.1 / ISO 10474 (2013), 3.1

Certificato nr. MEST389300 / 2019 /
Prelim/Tel/Ident

Cliente / Besteller/Kunden/Client
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
46801 - FORT WAYNE, IN 46801 - US

Stato di fornitura: Hot rolled Descaled Annealed Hot rolled
Lieferzustand: Lieferzustand
Etat de livraison:

Produttore:
Hersteller/Hersteller/producer

ACCIAIERIE VALBRUNA S.P.A.

Order nr: 61994 501154 CASTLE

Bestell
Order
Commande

Tipo di Elaborazione: E+AOO
Erstellungsort:
Milling process:
Mode d'élaboration:

Marché di Fabbrica:
Zustand des Lieferwerkes
Travail usine
Signe de l'usine productrice



Conferma ordine nr: EI19001100
Werkstoff/Identifikationsnr.:

Qualità: 304/304L #14507
Werkstoff/Qualitätsklasse:

Punzone di Collaudatore:
Stempel des Werkstoffprüfenden
Inspector's stamp/Prüfer des Feststellers

MR

Avviso di Spedizione: D-VI19009733
Lieferanweisung/Fracht info/L.

Marca: AISL
Markenbezeichnung:
Brand / Marque:

Punzonatura: 304/304L
Markierung:
Marking
Marquage

Corrosion test in 16% sulfuric acid and copper sulfate solutions

Test standard: ASTM A262-Practice E

Test	Heat treatment before test	Length of Period (h)	Test temp (°C)	Bend Angle (°)	Ø spindle (mm)	Result of visual inspection at 20 x magnification after bend test	Result
Intergranular corrosion	Sensitization	15	boil	180	5	Absence of cracks	SATISFACTORY

Macroetch test ok.
Reduction ratio = 32,1 : 1
Annealing temperature : 1940° F for 1 h/water.
Material is DFARS Compliant

115019

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind b. Anlage erfüllt
The material has been furnished in accordance with the requirements
Le matériel a été fourni conforme aux exigences

Controllo antiruggine: OK
Vorstichprüfung: oxydationstest durchgeführt
Anweisung bausee performed. OK
Corrosion technology test: A.B. b.

Controllo visivo e dimensionale: soddisfa le esigenze
Blickprüfung und Ausmessung: ohne Beanstandung
Visual inspection and dimensional checks satisfactory
Controlle visuel et dimensionnel: satisfaisant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination

We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER ACCORDING TO ISO 9001 : 2015, IATF 16949 : 2016, AS 9100

The Quality Management System is Certified acc. Pressure Equipment Directive 2014/68/EU Annex 1, chapt.4.3 by TÜV and LLOYD'S
Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.
Maximal and/or Valplus grade products are manufactured with ladle techniques to control composition, distribution, size and shape of non-metallic inclusions for improved machinability.

The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products.

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Vicenza, 01/04/19

VCO008 - MEST389300

Prod. MEST3

Il collaudatore di stabilimento / der Werksachverständige / Works Inspector / L'agent d'usine

M. RIZZOTTO

Pagina - 2 di 2